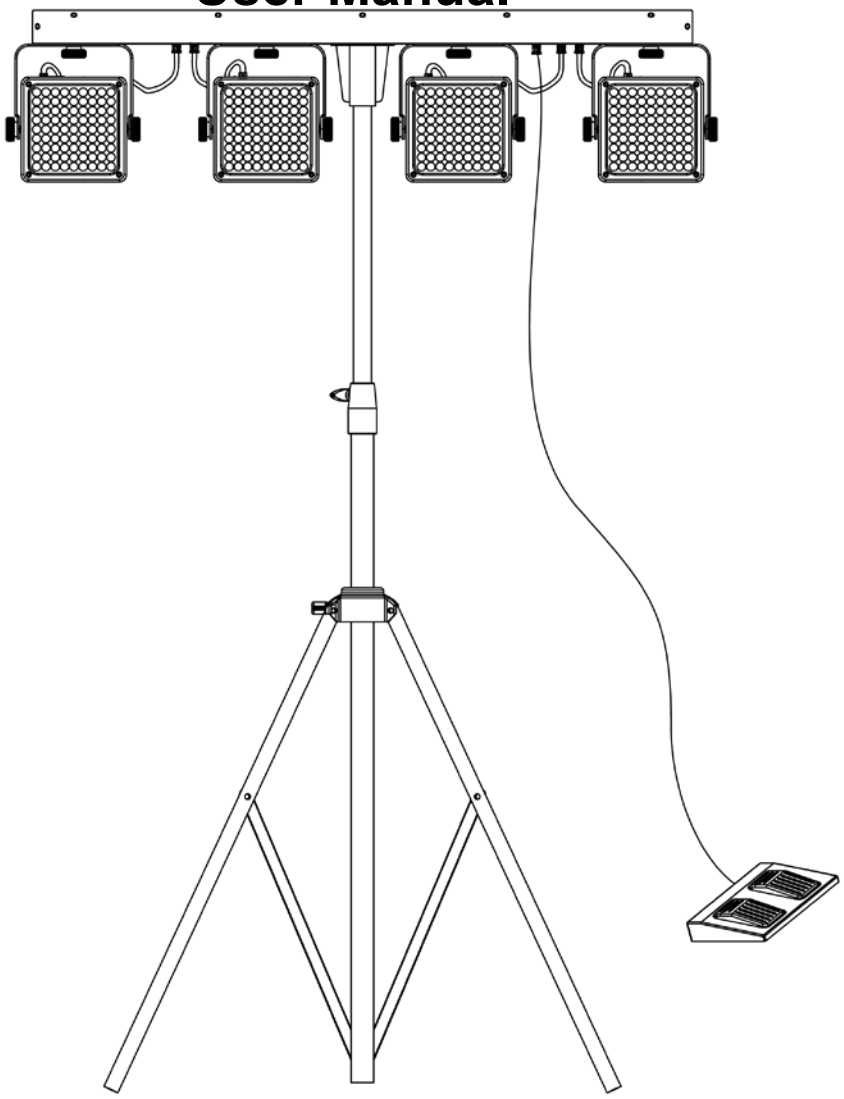
MINI 4 BAR™ 2.0

User Manual



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1. BEFORE YOU BEGIN

What is Included

- Mini 4 Bar™ 2.0
- Carrying Bag
- Tripod
- Tripod Carrying Bag
- Footswitch
- 2 x Hanging Brackets with mounting hardware
- Power Cord
- Warranty Card
- Quick Reference Guide

Unpacking Instructions

Immediately upon receipt, carefully unpack this product and check the container to make sure you have received all the parts indicated above in good condition.

Claims

If the container or the material inside the container (this product and any other accessory included) appears damaged from shipping, or shows signs of mishandling, notify the carrier immediately, not Chauvet, upon receipt of the damaged merchandise. Failure to do so in a timely manner may invalidate your claim with the carrier. In addition, retain the container and all the packing material for inspection.

For other issues such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with Chauvet within seven (7) days of receiving the merchandise.

Text Conventions

Convention	Meaning
1—512	A range of values
50/60	A set of values of which only one can be chosen
Settings	A menu option not to be modified
Menu > Settings	A sequence of menu options to be followed
<ENTER>	A key to be pressed on the product's control panel
ON	A value to be entered or selected

Symbols

Symbol	Meaning
	Critical installation, configuration, or operation information. Failure to comply with this information may render the product partially or completely inoperative, cause damage to the product, or cause harm to the user.
	Important installation or configuration information. Failure to comply with this information may prevent the product from functioning correctly.
	Useful information.

Document Information

The information and specifications contained in this document are subject to change without notice. Chauvet assumes no responsibility or liability for any errors or omissions that may appear in this manual. Chauvet reserves the right to update the existing document or to create a new document to correct any errors or omissions.

You can download the latest version of this document from www.chauvetlighting.com.

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Product at a Glance

Use on Dimmer	X	Auto Programs	P
Outdoor Use	X	Auto-ranging Power Supply	P
Sound-Activated	P	Replaceable Fuse	P
DMX	P	User-Serviceable	X
Master/Slave	P		

Safety Notes

Please read the following Safety Notes carefully before working with this product. They include important safety information about its installation, usage, and maintenance.

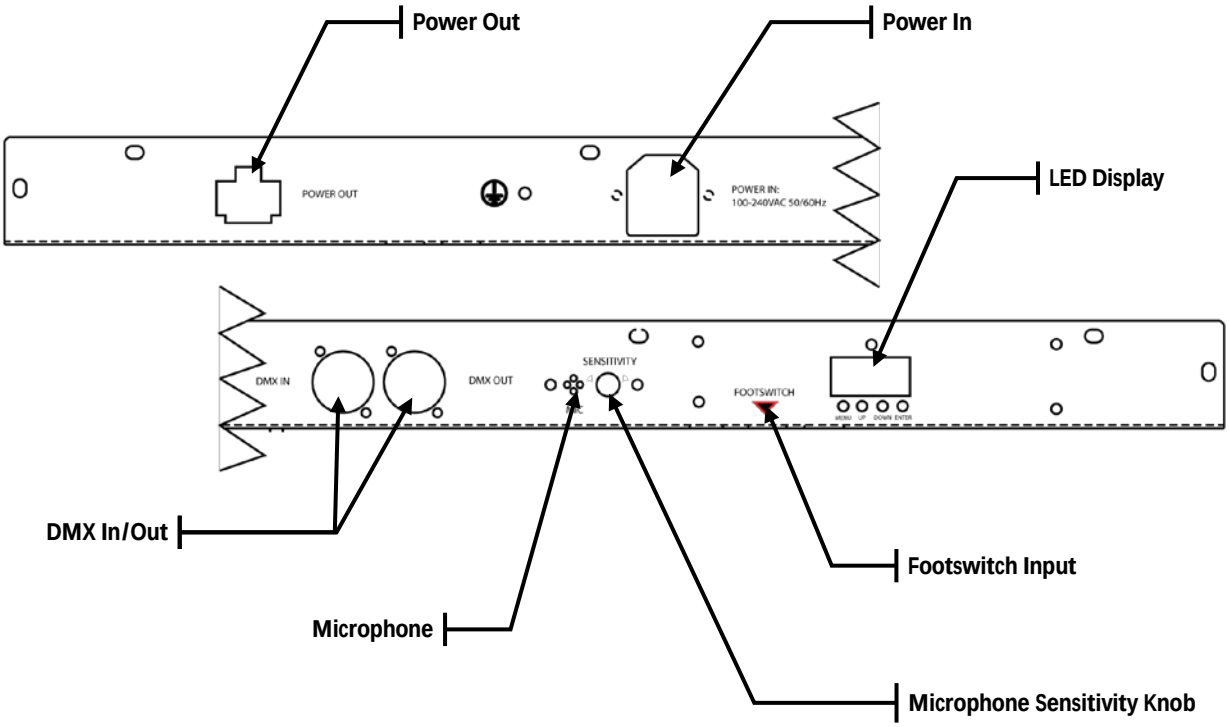
- Always connect this product to a grounded circuit to avoid the risk of electrocution.
- Always disconnect this product from the power source before cleaning it or replacing the fuse.
- Avoid direct eye exposure to the light source while the product is on.
- Make sure the power cord is not crimped or damaged.
- Never disconnect this product from power cord by pulling or tugging on the cord.
- If mounting this product overhead, always secure it to a fastening device using a safety cable.
- Make sure there are no flammable materials close to the unit while operating.
- Do not touch this product's housing when operating because it may be very hot.

- Always make sure that the voltage of the outlet to which you are connecting this product is within the range stated on the decal or rear panel of the product.
- This product is for indoor use only! (IP20) To prevent risk of fire or shock, do not expose this product to rain or moisture.
- Always install this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Be sure that no ventilation slots on the unit's housing are blocked.
- Never connect this product to a dimmer.
- Make sure to replace the fuse with another of the same type and rating.
- Never carry this product from the power cord or any moving part. Always use the hanging/mounting bracket or the handles.
- The maximum ambient temperature (Ta) is 104 °F (40 °C). Do not operate this product at higher temperatures.
- In the event of a serious operating problem, stop using the unit immediately.
- Never try to repair this product. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.

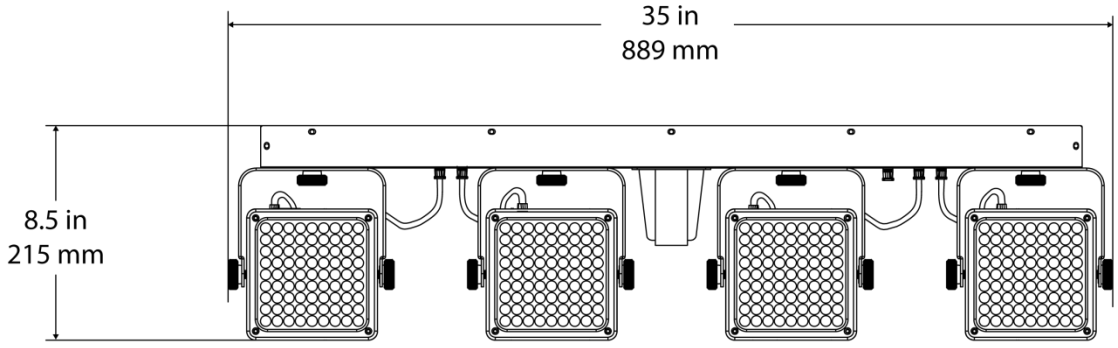
- Keep this User Manual for future consultation. If you sell this product to another user, be sure that they also receive this document.

2. INTRODUCTION

Product Overview



Product Dimensions



3. SETUP

AC Power

This product has an auto-ranging power supply and it can work with an input voltage range of 100 to 240 VAC, 50/60 Hz.

To determine the power requirements for this product (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart. The listed current rating indicates the product's average current draw under normal conditions.

Always connect this product to a protected circuit (circuit breaker or fuse), making sure that it has an appropriate electrical ground to avoid the risk of electrocution or fire.

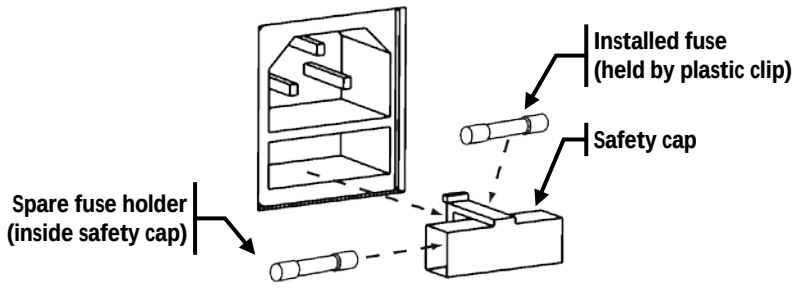
Never connect this product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

Fuse Replacement

Follow the instructions below to change the fuse, if necessary.

Disconnect this product from the power outlet before replacing the fuse.

1. Wedge the tip of a flat-head screwdriver into the slot of the fuse holder and pry out of its housing.
2. Remove the blown fuse from its holder and replace with a fuse of the exact same type and rating.
3. Insert the fuse holder back into place, and reconnect power.



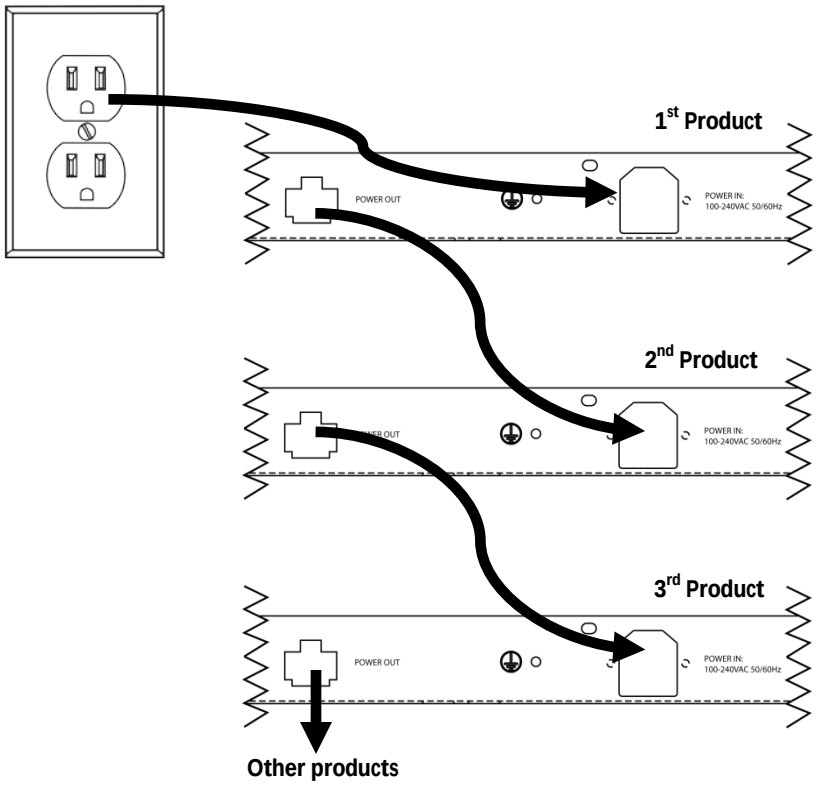
Although the safety cap does have room for a spare fuse, this product ships with no spare fuse.

Always replace a blown fuse of the same type and rating.

Power Linking

This product provides power linking via the Edison outlet located in the back of the unit. Please see the diagram below for further explanation.

Power Linking Diagram



You can power link up to 18 Mini 4 Bar™ 2.0 units on 120 VAC or up to 32 Mini 4 Bar™ 2.0 units on 230 VAC.

The power linking diagram shown above corresponds to the North American version of this product ONLY! If using this product in other markets, you must consult with the local Chauvet distributor as power linking connectors and requirements may differ in your country or region.

Mounting

Before mounting this product, read and follow the safety recommendations indicated in the *Safety Notes* section.

Orientation

The Mini 4 Bar™ 2.0 may be mounted in any position; however, make sure adequate ventilation is provided around the product.

Rigging

This product has multiple rigging options. They are as follows:

- Floor Standing (using the two mounting/standing brackets)
- Hanging (using the two mounting/standing brackets)
- Hanging (using the two hanging clamp mounting points)

Before deciding on a location for this product, always make sure that it will be easy to access the unit for maintenance and programming purposes.

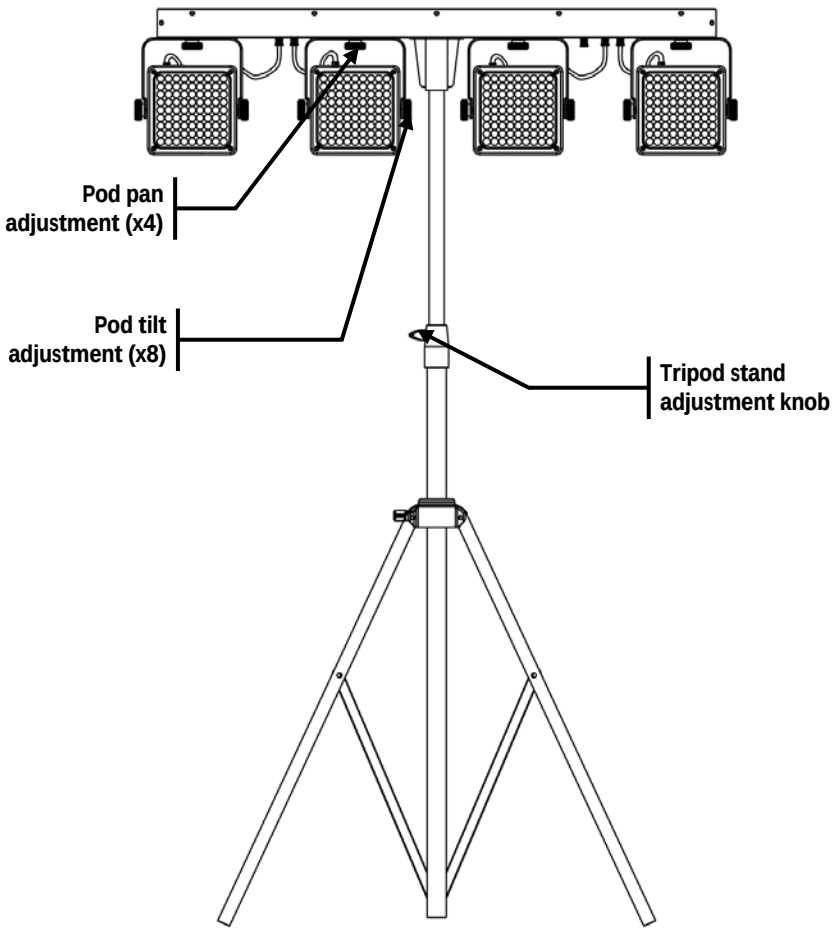
Make sure that the structure onto which you are mounting this product can support its weight. See the *Technical Specifications* for weight information.

When mounting this product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss. The bracket has a 13 mm hole, which is appropriate for this purpose.

When rigging this product onto a truss, you should use a mounting clamp of appropriate weight capacity.

When power linking multiple products, you must always consider the length of the power linking cable and mount the products close enough for the cable to reach.

Mounting Diagram



4. OPERATION

Control Panel Operation

To access the control panel functions, use the four buttons located underneath the display. Please refer to the Product Overview (page 5) to see the buttons location on the control panel.

Button	Function
<MENU>	Press to find an operation mode or to back out of the current menu option
<DOWN>	Press to scroll down the list of options or to find a higher value
<UP>	Press to scroll up the list of options or to find a lower value
<ENTER>	Press to select the value selected

Menu Map

Mode	Programming Steps		Description
DMX Personalities	**3-CH** **15CH**	**d 1-d512**	Sets DMX personality and starting address
Sound Active Mode	**SND**		Sets Sound Active mode
Automatic Mode	**AUTO**		Sets Auto Program
Auto Program Speed	**S--**	**S 1-S100**	Sets Auto Program speed

Configuration (DMX)

Set this product in DMX mode to control it with a DMX controller.

1. Connect this product to a suitable power outlet.
2. Turn this product on.
3. Connect a DMX cable from the DMX output of the DMX controller to the DMX input socket of this product.

Starting Address

When selecting a starting DMX address, always consider the number of DMX channels the selected DMX mode uses. If you choose a starting address that is too high, you could restrict the access to some of the product's channels.

The Mini 4 Bar™ 2.0 uses up to 15 DMX channels in its 15-channel DMX mode, which defines the highest configurable address to **498**.

If you are not familiar with DMX, download the DMX Primer from www.chauvetlighting.com.

To select the starting address, do the following:

1. Press **<MENU>** repeatedly until **512** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select the starting address.
4. Press **<ENTER>**.

Configuration (Standalone)

Set this product in one of the standalone modes to control it without a DMX controller.

1. Connect this product to a suitable power outlet.
2. Turn this product on.

Never connect a product that is operating in any standalone mode, whether Static, Automatic, or Sound to a DMX string connected to a DMX controller. This is because products in standalone mode may transmit DMX signals that could interfere with the DMX signals from the controller.

Sound-Active Mode

To enable the Sound Active mode, do the following:

1. Press **<MENU>** repeatedly until **SND** shows on the display.
2. Press **<ENTER>**.
3. Turn the music on and adjust the microphone sensitivity knob until the product starts reacting to the beat of the music.

The product will only respond to low frequencies of music (bass and drums).

Automatic Mode

To enable the Automatic Mode, follow the instructions below:

1. Press **<MENU>** repeatedly until **AUTO** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to adjust the duration of each step of the automatic program from **S__1** (fast) to **S100** (slow).
4. Press **<ENTER>**.

Master/Slave Mode

This mode allows a single Mini 4 Bar™ 2.0 unit (the “master”) to control the actions of one or more Mini 4 Bar™ 2.0 units (the “slaves”) without the need of a DMX controller. The master unit will be set to operate in either Automatic or Sound Active mode, while the slave units will be set to operate in Slave Mode. Once set and connected, the slave units will operate in unison with the master unit.

Configure the units as indicated below.

Slave units:

1. Press **<MENU>** repeatedly until **3-CH or 15CH** shows on the display.
2. Press **<ENTER>** to accept.
3. Set the DMX address to “001”, as previously explained.
4. Connect the DMX input of the first slave unit to the DMX output of the master unit.
5. Connect the DMX input of the subsequent slave units to the DMX output of the previous slave unit.
6. Finish setting and connecting all the slave units.

Master unit:

1. Set the master unit to operate in either Automatic or Sound mode, as previously indicated.
2. Make the master unit the first unit in the DMX daisy chain.

- **Configure all the slave units before connecting the master unit to the DMX daisy chain.**
- **Never connect a DMX controller to a DMX string configured for Master/Slave operation because it may interfere with the signals from the master unit.**
- **Do not connect more than 31 slave units to the master unit.**

Footswitch Operation

The included footswitch provides quick access to the preset colors, color change programs, and triggering via the onboard microphone on the Mini 4 Bar™ 2.0. Please see the chart, along with the set of instructions below for further explanation.

1. Power on the fixture.
2. Connect the footswitch to the Mini 4 Bar™ 2.0 via the 3-pin connection cable.
3. Press pedal #1 (Preset) to activate control. When this is operating properly, the LEDs on the Mini 4 Bar™ 2.0 will light white (first function on pedal #1).

Pedal	Sub-option	Function
1 (Preset)	1 x press	White
	2 x press	Red
	3 x press	Green
	4 x press	Blue
	5 x press	Yellow
	6 x press	Magenta
	7 x press	Cyan
	8 x press	Color change every second in a continuous loop
	9 x press	Color change every three seconds in a continuous loop
2 (Blackout)	1 x press	All LEDs off; press pedal 1 or pedals 1 & 2 to re-enter active modes
1 & 2 (Sound Active)	Press both pedals simultaneously	Sound-active mode

There is no need to modify any settings for the Mini 4 Bar™ 2.0 before connecting the footswitch. It will operate properly in any mode.

Plug the master fixture in LAST!

Disconnecting the Footswitch

In order to properly disconnect the footswitch, please follow these steps:

1. Unplug the footswitch from the Mini 4 Bar™ 2.0.
2. Turn the power to the fixture off (unplug the power cable).
3. Turn the power to the fixture on again (plug in the power cable), and the fixture will properly operate on any one of the 3 modes.

DMX Channel Assignments and Values

15CH

Channel	Function	Value	Setting	
1	Control/Operating Mode	000 ó 009	RGB color mixing mode	
		010 ó 029	Auto program 1	
		030 ó 049	Auto program 2	
		050 ó 069	Auto program 3	
		070 ó 089	Auto program 4	
		090 ó 109	Auto program 5	
		110 ó 129	Auto program 6	
		130 ó 149	Auto program 7	
		150 ó 169	Auto program 8	
		170 ó 189	Auto program 9	
		190 ó 209	Auto program 10	
		210 ó 229	Auto program 11	
		230 ó 249	Auto program 12	
		250 ó 255	Sound-active Mode	
2	Master Dimmer	000 ó 000	No function	
		001 ó 255	Dimmer (1–100%)	
3	Master Strobe	000 ó 009	No function	
		010 ó 255	Strobe (Fast to Slow)	
4	Red 1	000 ó 255	0–100%	Color Mixing for Pod 1
5	Green 1	000 ó 255	0–100%	
6	Blue 1	000 ó 255	0–100%	
7	Red 2	000 ó 255	0–100%	Color Mixing for Pod 2
8	Green 2	000 ó 255	0–100%	
9	Blue 2	000 ó 255	0–100%	
10	Red 3	000 ó 255	0–100%	Color Mixing for Pod 3
11	Green 3	000 ó 255	0–100%	
12	Blue 3	000 ó 255	0–100%	
13	Red 4	000 ó 255	0–100%	Color Mixing for Pod 4
14	Green 4	000 ó 255	0–100%	
15	Blue 4	000 ó 255	0–100%	

3-CH

Channel	Function	Value	Setting
1	Red	000 ó 255	0–100%
2	Green	000 ó 255	0–100%
3	Blue	000 ó 255	0–100%

5. TECHNICAL INFORMATION

Maintenance

Dust build up reduces light output performance and can cause overheating. This can lead to reduction of the light source's life. To maintain optimum performance and minimize wear, you should clean your lighting products at least twice a month. However, be aware that usage and environmental conditions could be contributing factors to increase the cleaning frequency.

To clean this product, follow the instructions below:

1. Unplug the product from power.
2. Wait until the product is at room temperature.
3. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surface/vents.
4. Clean all glass/transparent surfaces with a mild soap solution, ammonia-free glass cleaner, or isopropyl alcohol.
5. Apply the solution directly to a soft, lint free cotton cloth or a lens cleaning tissue.
6. Softly drag any dirt or grime to the outside of the glass/transparent surface.
7. Gently polish the external optics and glass/transparent surfaces until they are free of haze and lint.

Always dry the glass/transparent surfaces carefully after cleaning them.

6. TECHNICAL SPECIFICATIONS

Dimensions and Weight

Length	Width	Height	Weight
1.8 in (46 mm)	8.5 in (215 mm)	35 in (889 mm)	8.2 lb (3.7 kg)

Note: Dimensions in inches rounded to the nearest decimal digit.

Power

Power Supply Type	Range	Voltage Selection
Switching (internal)	100 to 240 V, 50/60 Hz	Auto-ranging

Parameter	120 V, 60 Hz	230 V, 50 Hz
Consumption	52 W	57 W
Operating	0.4 A	0.2 A
Power linking current (units)	8 A (18 units)	8 A (32 units)
Fuse	F 1 A, 250 V	F 1 A, 250 V

Power I/O	U.S./Worldwide	UK/Europe
Power input connector	IEC	IEC
Power output connector	Edison	IEC
Power Cord plug	Edison (U.S.)	Local plug

Light Source

Type		Lifespan
LED		50,000 hours

Color	Quantity
Red	108
Green	108
Blue	108

Photo Optic

Parameter	Narrow Lenses
Illuminance @ 2 m	558 lux (per pod)
Beam angle	16°
Field angle	24°

Thermal

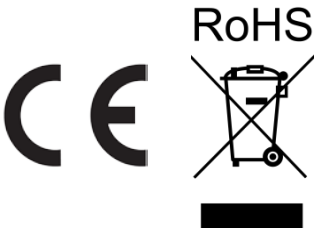
Maximum External Temp.	Cooling System
104 °F (40 °C)	Convection

DMX

I/O Connectors	Connector Type	Channel Range
3-pin XLR	Sockets	3 or 15

Ordering

Product Name	Item Code	Item Number
Mini 4 Bar™ 2.0	03030341	MINI4BAR2.0



CONTACT US

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Technical Support

Email: uktech@chauvetlighting.com

World Wide Web www.chauvetlighting.co.uk

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Voice: +52 (728) 285-5000

Technical Support

Email: servicio@chauvet.com.mx

World Wide Web www.chauvet.com.mx

If you live outside the U.S., UK, Mexico, or Ireland, contact your distributor and follow their instructions on how to return Chauvet products to them. Visit www.chauvetlighting.com for contact details.

Returning Products to Chauvet

Call the corresponding Chauvet Tech Support office and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause for the return.

You must send the merchandise prepaid, in its original box, and with its original packing and accessories. Chauvet will not issue call tags.

Clearly label the package with the RMA number. Chauvet will refuse any product returned without an RMA number.

DO NOT write the RMA number directly on the box. Instead, write it on a properly affixed label.

Before sending the product, clearly write the following information on a piece of paper and place it inside the box:

- Your name
- Your address
- Your phone number
- RMA number
- A brief description of the problem

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be your responsibility. FedEx packing or double-boxing are recommended.

Chauvet reserves the right to use its own discretion to repair or replace returned product(s).